

## ABSTRACT

To provide a two-dimensional modulation method for hologram recording which is capable of preventing degradation of reconstructing performance when positional shift occurs and which enables information to be stably recorded or reproduced. The hologram recording carrier employs the two-dimensional modulation method for hologram recording for generating coherent light containing therein page data through a spatial light modulator having a plurality of pixels two-dimensionally arranged therein, in which the pixels of the spatial light modulator are partitioned into a plurality of blocks consisting of  $m$  pixels adjacent to each other (where  $m$  = an integral number), and a boundary portion which has a width having at least the width of one pixel of the spatial light modulator or of one pixel of an image detecting sensor used to reproduce the recorded page data and the distance between the adjacent pixels in each of the blocks, and each of which shields light is provided between the adjacent blocks.